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UNTRY	USSR (Moscow Oblast)	REPORT			
BJECT	Shchelkovo and Karbolit Chemical Plants	DATE DISTR.	4 Ap	ril 1968	57
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	all raw materials entered the plant via rail; the arsenic, bottles of tiofos, copper sulphate, and bottles of oxygen entered via truck.
	Constant efforts were made to increase production. The plant tended to expand in the direction of the river and in the space separating it from a turbine plant. if necessary the tlofos shop could be converted to the production of cases
Į	Karbolit Chemical Plant
	The Karbolit Chemical Plant was located about 10 kilometers south of Orekhovo 50X1-Zuyevo (N 55-49, E 38-59) in the village of Karbolit formerly known as Dubrovka (N 55-51, E 39-12). Karbolit were located about two kilometers south of Orekhovo Zuyevo to 10 kilometers. this was a non-military or a non-defense plant subordinate to the former Ministry of Chemical Industries, but she was unable to identify any intermediary organizational offices between the ministry and plant; neither was she able to provide an organizational structure of the plant.
	The official name of the plant was the Karbblit Chemical Plant (Khimicheskiy Zavod 'Karbolit'), commonly referred to as Karbolit. It was situated in an area about one kilometer square which fronted on ulitsa Dzerzhinskogo. The other three sides of the plant bordered on open and wooded areas as opposed to other streets or populated areas. Although there were no rumors or visible evidence of such, there were than sufficient space for a great amount of plant expansion.
	The plant territory was surrounded by a plain wooden fence about three meters high. The fence had no barbed wire, but wooden watchtowers about four meters high were 50X intermittently spaced at unknown intervals along the fence. These towers were manned by male members of the plant security section the existence of these towers was intended for the prevention of thievery by the workers as opposed to providing strict security supervision as might be imposed at a defense plant.
	Except for some small bakelite, plastic and textolite parts for aircraft, the plant produced plastic and bakelite parts for civilian use. This included various electrical fixtures and allied equipment such as switches, faceplates, plugs, socket etc., large plastic wheels used for an unknown purpose within the subway system, combs, various sized plastic wheels and toys. All items produced at the plant were sent to the plant warehouse from where they were sent to their final destinations.50
	were packed in cardboard and wooden boxes.
	all shipments to and from the plant were hy truck
ľ	A ten-page report on the general layout of the plant, a listing of some plant person and general information on the plant's technical school as Attachment 2 of this report.
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(<u>1.</u>	of Ch locat meter direc bound two-m	shchelkovo Chemical Combine, which was subordinate to the Ministry emical Industries, employed between 900 and 1,000 persons. It was ed on the Shchelkovo highway that ran to Monino, about 80 or 100 s back from the road and about 300 meters from a spur line that ran tly to the plant. The Combine faced north. On the east, it was ed by a brick wall about 2.5 meters high that was topped with a eter-high barbed-wire fence. On the north and south, it was bounded barbed-wire fence about two meters high. On the west, it was ed by the Textile Combine and by apartment buildings.
2.	Follo page	wing is the legend for sketch of the Combine, on 15.
	(1)	Moscow-Monino railroad line. A spur line originating about 250 meters from the Shchelkovo station entered the plant area.
	(2)	Iron water tower about six meters high and 12 meters in diameter, which supplied water to the city of Shchelkovo and to the plant. It was on a concrete base nine or ten meters high with a door leading to a room housing the motor that pumped water into the tank.
	(3)	Road from the station to the city.
	(4)	Open lot.
	(5)	Highway to Monino that bore the same name as the plant.
	(6)	Athletic field.
	(7)	Shehelkovo railroad station.
	(8)	Road leading to the Textile Combine's new plant.
	(9)	Plant dining room, a well ventilated one-story brick building measuring 40 meters square by about five meters high.
	(10)	Club, a one-story brick building measuring 80×40 meters high, with facilities for table tennis, movies, theater, library, chess, fencing, etc.
	(11)	Shchelkovo-Monino railroad.
	(12)	Sawmill that did not belong to the plant.
	(13),	(14), and (15) Apartment houses.
	(16)	
		about 60 persons worked three shifts.
	(17)	Insecticides shop, a one-story brick building measuring about 30 meters square, that produced insecticides in powdered and liquid form for use in aerial crop dusting. A total of about 30 persons worked three shifts.

50X1-HUM

dispense fuel to plant cars and trucks.

building just below the roof. Small railroad cars rode on rails

50X1-HUM

C-O-N-F-I-D-E-N-T-I-A-L

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installed on this platform. The Glover process was followed, using as raw material Fe₂ S₅ /sie/ which was stored in two bunkers and transported by a concave conveyor belt 1.25 meters wide to two hoppers located at the highest part of the shop. The raw material passed from these hoppers directly to the ovens (4) which had six50X1-HUM compartments at different temperatures; the hottest compartment was No. 4, which was as far as the air reached.

No. 6 was located at the top of the oven, and compartment No. 1 was located at the bottom. These ovens roasted crushed ore to produce SO₂ which was filtered sic in chambers (7) that measured about four meters high by two meters wide; a metallic net not further described hung from porcelain insulators located in the highest part of the chambers. This net was connected to a high tension line, and solids collected on it. From the chambers (7), the gas passed to water tanks (13) for cooling; these tanks had helical pipes along the entire length of the walls. The gas was then piped to the Glover towers, which had a diameter of 1.5 meters; in these towers, the gas was sprayed with water and Melans sic, then piped to tanks (11); it was sprayed again with water, then piped to storage tanks (17, 18). The product was 76 percent pure, and could be made 85 percent pure. This shop employed about 100 persons in three shifts, 40 on the first shift, and 30 on each of the other two shifts.

- (41) Machinery repair shop, a one-story building measuring about 60 x 70 meters that employed about 200 persons on two eight-hour shifts. This shop repaired all plant machinery, using lathes, milling machines, drill presses, winding machines, and small machines not further described; all shop machinery was of Soviet make and in good operating condition. The shop also had two electric furnaces that smelted part of the plant waste, producing unspecified small quantities of ingots that were sent to the Shchelkovo sheet metal plant.
- (42) Electrical substation, a one-story building measuring about 15 x 6 meters adjoining No. 41; it contained all the control panels and circuit breakers, and was the point from which electricity was 50X1-HUM supplied to all the shops. About 12 persons worked at the substation; considered to be auxiliary to the Shchelkovo electric power station, which supplied the electric power.
- (43) One-story building measuring about 12 x 7 or 8 meters that housed the Komsomol and the Communist Party organizations.
- (44) Pile of plant waste materials similar to No. 21.
- (45) Hut occupied by the person in charge of transporting waste from point No. 19 on the sketch on page 16 to Nos. 21 and 44 on the sketch on page 15. This hut contained the motor for the telpher conveyor system.

 50X1-HUM

Tiofos /thiophosphoric acid? shop, a one-story brick building that measured about 40 x 30 meters, had a cement floor, and large windows that were always kept shut in order to keep an unidentified gas from escaping. This shop measured about 40 x 30 meters, was elevated one and one-half meters above ground level, and entry to the shop was prohibited. It smelled of very strong iodine.

brown bottles of chlorine received at the shop; there was a large pile of these bottles, which were about the size of a two-quart50X1-HUM

C-O-N-F-I-D-E-N-T-I-A-L

ankle), a gauze and cotton mask for mouth and nose, the same type of mask to protect the genitals, the same type of mask with a small amount of bicarbonate of soda added to protect mouth and nose when the gases were very dense, normal long white shorts, white long-sleeved cotton undershirs, normal coveralls with wristhands, impermeable gray plastic cap lined with felt, elbowlength rubber gloves, and tight-fitting goggles. This same equipment was worn in Shops No. 22, 46, and 52.

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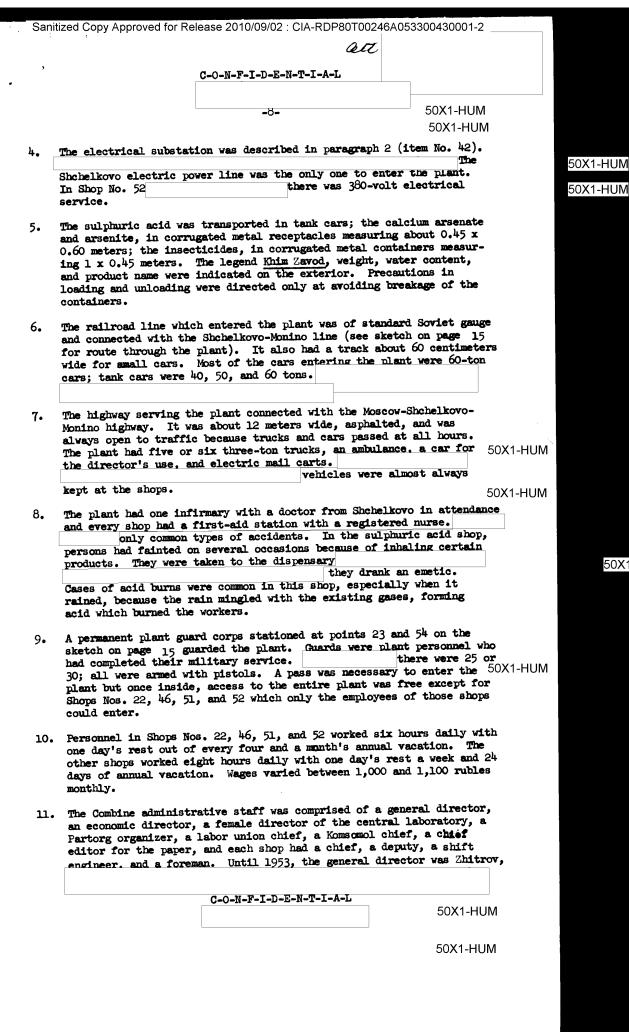
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- (52) Calcium arsenate shop, a three-story brick building measuring about 60 meters square by about 18 meters high, with a pitched uralite roof of a light gray color. (See sketches on pages 17 through 19.) It had a 25-meter-high shimney, rectangular at the base and measuring about eight meters by four or five meters; the chimney had six bands. It had both forced draft and exhaust fans. During the manufacturing process, there was an odor similar to that of half-slaked lime or of dampness.
- (53) Quicklime storage bins measuring 23 x 30 meters; the lower two meters were of brick, the remaining meter and one-half was of wood. The quicklime was discharged from the railroad and transported to these bins, which always contained a large quantity of quicklime.
- (54) Wooden sentry boxes guarding Shops Nos. 51 and 52; they were permanently manned by plant personnel bearing pistols who had completed their military service.
- (55) Arsenic and copper sulphate storage, a wooden building measuring 8 x 10 meters. These materials arrived by truck and were used by Shops Nos. 51 and 52.
- (56) Shop in which receptacles were cleaned by sand blasting; it was a brick building that measured about 15 x 6 meters, and employed five or six persons.
- (57) Two-story wooden building measuring 30 meters square. The ground floor contained the personnel and housing offices; the second floor was used as housing by plant personnel.
- (58) Showers.

- (59) Kennels containing nine dogs and surrounded by a wire fence. At nightfall, three of these dogs were taken to the northern part where the barbed-wire fence was; one dog was stationed at the south, another at the east, and another at the west. Guards living at point No. 23 on the sketch on page 15 used the three remaining dogs on their rounds.
- (60) Storage for pickaxes, shovels, baskets, and sacks; it measured 5 x 12 meters.
- (61) Two-story brick building measuring 12 x 15 meters. The ground floor was a storehouse and the second floor contained a store where toilet articles and sweets were sold.

3•	Following are the raw materials used at the Combine: quicklime, a caustic solution, copper sulphate, arsenic, powdered soda, compressed air, coal, greases, wood, nails, Fe ₂ S ₅ , lead, common salt, oxygen, all kinds of fish, generally large and rotten, which were used for making insecticides in Shop No. 17, dolomite which was mixed with waste in
	the foundry. Melans, and heavy oils. The dolomite was extracted in
	Shchelkovo from quarries located north of the Listoprokatnyy Zavod. Almost all raw materials entered
	the plant via rail; the arsenic, bottles of tiofos, copper sulphate, 50X1-HUM
	and bottles of oxygen entered via truck. 50X1-HUM

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				as assigned to mkii (fnu)	
	ro	ormerly deputy direct , he promised many t	or, was made di	rector. To	50X1-HU
	promises.	i, he promised many t	urings but never	IUIIIIIGU III	
•	Shop No. 52		was staffed w		0X1-HUN
	and his deputy, the	ree shift chiefs who ry_operators of the c	were engineers,	a foreman, precipitator.	
	and the reactor	. one operating th	ne Mikka apparat	us, one	
	filters, and fourth	ng machine, one fifth n-category workers in	cluded one fire	man, two	
	helpers, one each i	for the aspirator and of the third categor	the filtering	machine. All	
•		ere made to increase The plant	t tended to expa	nd in the	
		iver and in the space	separating it	from a turbine	
	plant.	if necessareduction of gases.	ary, the tiofos	suop conta ne	

50X1-HUM

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14. Following is the legend for sketch of the first floor layout of Shop No. 52, on page 17.

- (1) Room containing washer.
- (2) Clean clothing storage.
- (3) Dressing rooms.
- (4) Corridor through which workers walked naked.
- (5) Entertainment room.
- (6) Wardroom for workers' personal clothing.
- (7) Corridor leading to other sections of the shop.
- (8) Packaging section.
- (9) Toilets.
- (10) Bunkers.
- (11) Intake pipe.
- (12) Hose.
- (13) Open area within shop.
- (14) Dryers.
- (15) Tank containing water mixed with caustic soda.
- (16) Tanks containing waste waters, used in reclaiming arsenic from the waters.
- (17) Receiving tanks for quicklime and caustic water solution.
- (18) Discharge for quicklime and caustic water solution.
- (19) Mikka apparatus.
- (20) Support for Mikka apparatus.
- (21) Stairway to platform.
- (22) Hopper feeding quicklime to No. 19.
- (23) Hopper bucket loader.
- (24) Coal furnace for heating the three dryers.
- (25) Chimneys 25 meters high.
- (26) Showers.
- (27) Bunkers feeding filtered paste to the dryers.
- (28) Sieve.
- (29) Casks.

50X1-HUM

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				-11-	ate			
15.	Follow layout	ring is the legen; of Shop No. 52,	d for on page	18.	sketch	of the	second	floor 50X1-HUM
	(1)	Office of the sh	op chief	and deputy s	hop chie	ef.		
	(2)	Accounting offic	е.					
	(3)	"Red Corner".						
	(4)	Stairway which s	tarted a	t the end of	the cor	ridor.		
	(5)	Bunkers.						
	(6)	First aid static	n.					
	(7)	Corridor.						
	(8)	Toilets.						
	(9)	Pipe.						
	(10)	Receptacles rec	eiving p	roduct from N	0. 12.			
	(11)	Orifice through	which th	ne product pas	ssed to	No. 12.	•	
	(12)	Tank in which p	roduct w	as beaten.				
	(13)	Filters.						
	(14)	Pipeline carryi	ng beate	n product.				
	(15)	A beater smalle	r than N	0. 12.				
	(16)							
	(17)	Stairway to pla						
	(18)	Filters that se	parated	the product i	rom the	causti	c water	•
	(19)							
	(20)	"Reactors" in v	hich the	copper sulplesoda.	nate, ar	senic,	and wat	er
	(21)	Gears spinning	the filt	er tank.				
	(22)	Drive belt for	No. 21.					
	(23)							0
	(24)					in Nos	. 13 au	nd 18.
	(25)				ers.			
	(26)							
	(27)	Shop open area	beneath	network of p	iping fe	eding 1	No. 30.	
	•	Landing.		_				
	(29)) Stairway leadi	ng to la	nding No. 28.	ı			
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- (30) Precipitating tanks.
- (31) Office of the shop chief.
- (32) Shop laboratory.
- (33) Chimney (continuation of No. 25 on sketch on page 17).

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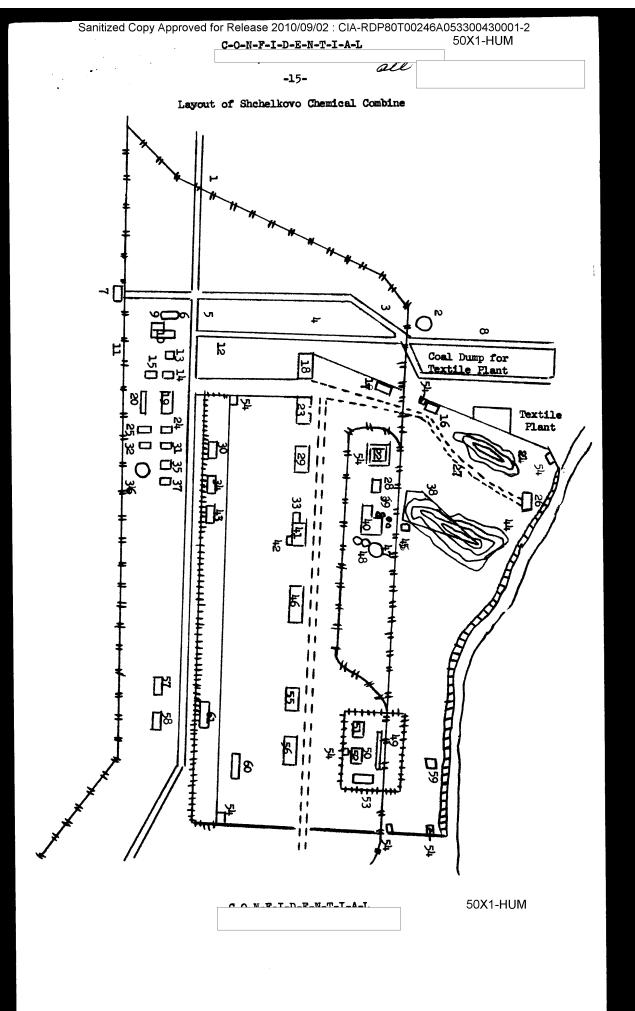
16. Following is the legend to sketch of the third floor layout of Shop No. 52, on page 19.

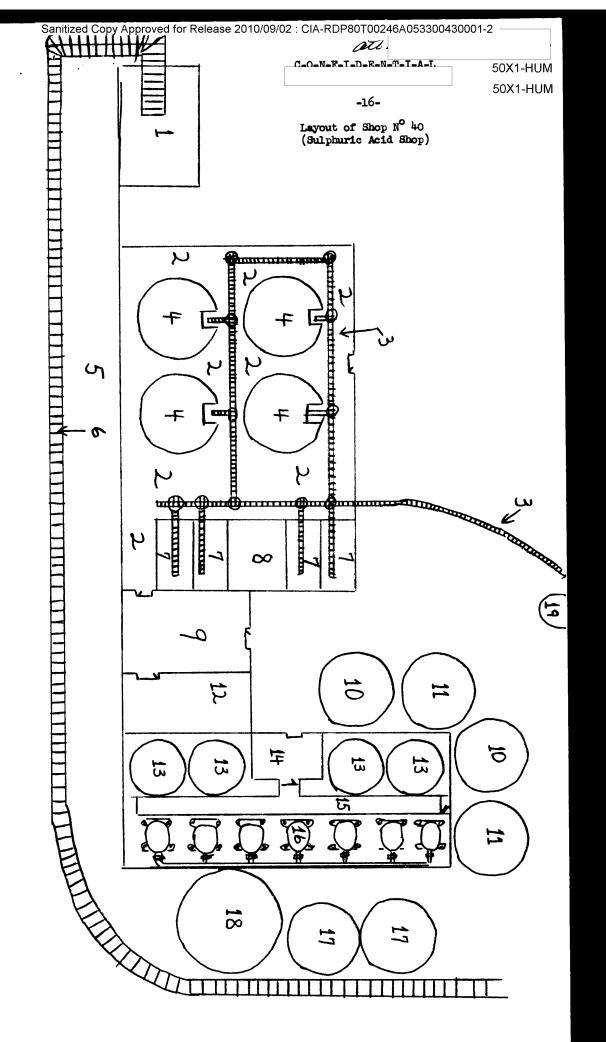
- (1) Office of the safety school.
- (2) Study hall.
- (3) Todlets.
- (4) Landing at entrance to safety school.
- (5) Stairway leading to landing No. 4.
- (6) Bunkers.
- (7) Electric motors driving air pumps.
- (8) Vacuum tanks that controlled electrical motors No. 7.
- (9) Pipes.
- (10) Chimney (continuation of No. 25 on sketch on page 17).
- (11) Tanks about seven meters in diameter that served to make the caustic water.
- (12) Receptacle for product made in the Mikka apparatus.
- (13) Stairway to No. 12.
- (14) Stairway indicated as No. 29 in sketch on page
- (15) Third-floor landing.
- (16) Oxygenators.

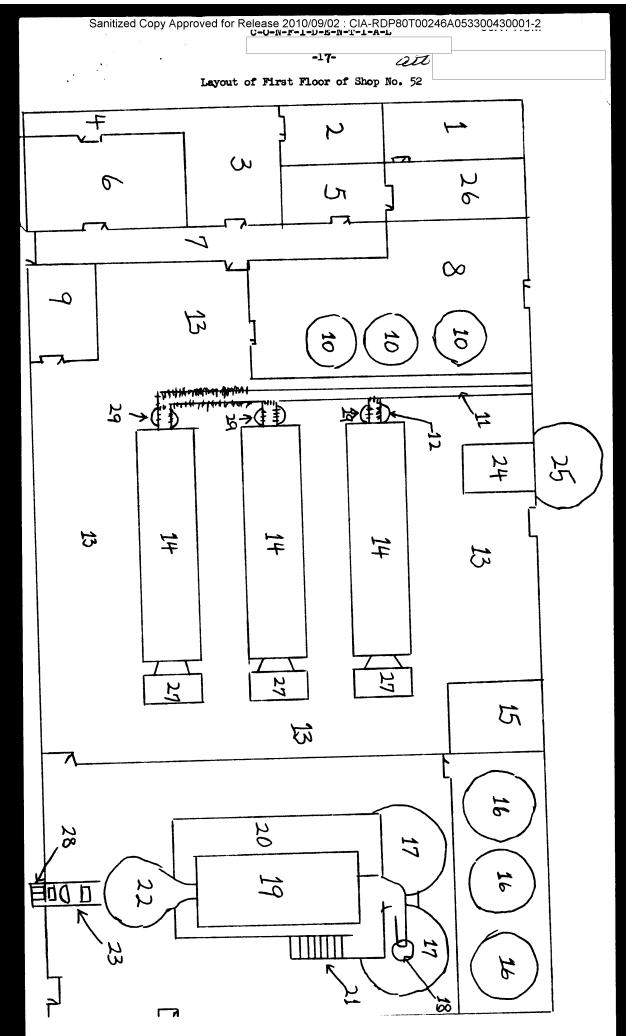
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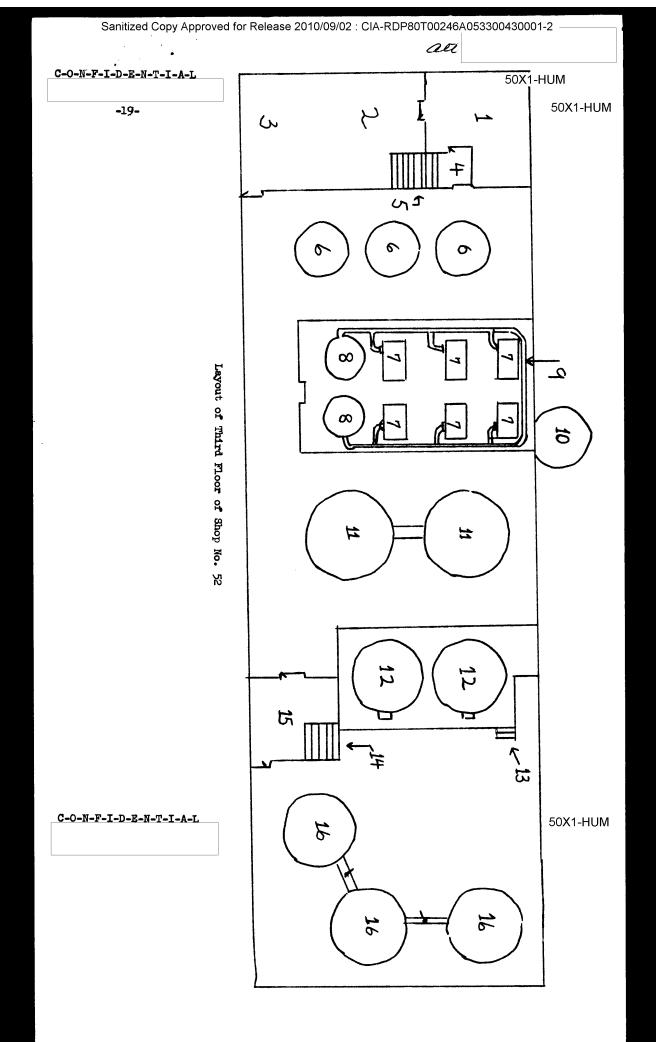
Sanitized Copy Approved for Release 2010/09/02: CIA-RDP80T00246A053300430001-2 an. C-O-N-F-I-D-E-N-T-I-A-L -14-50X1-HUM sketch of the layout of 17. Following is the legend for Shop No. 40 on page 16. (1) Unloading site. 50X1-HUM (2) Open area. Railroad line. (3) (4) Ovens. (5) Unloading point for Fe₂S₅. (6) Interior railroad line. (7) Ionization chambers. (8) Electric control panel for the chambers. (9) Cloakroom. (10) and (11) Glover towers. (12) Showers and toilets. (13) Water tanks with helical pipes. (14) Electric power station for motors producing a draft in the towers. (15) Catwalk. (16) Motors. (17) and (18) Sulphuric acid tanks. (19) Waste disposal. 50X1-HUM Comments: the contents of the bottles were hydrogen and oxygen. 50X1-HUM C-O-N-F-I-D-E-N-T-I-A-L







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	CONFIDENTIAL
	 ∠-
	Karbolit Chemical Plant
š. 1.	The Karbolit Chemical Plant was located about 10 kilometers south of Orekhovo Zuyevo (N 55-49, E 38-59) in the village of Karbolit formorly 50X1-HUM known as Dubrovka (N 55-51, E 39-12). and the village of Karbolit were located about two kilometers south of Orekhovo Zuyevo kilometers. this was a non-military or a non-defense plant subordinate to the Ministry of Chemical Industries
2.	The official name of the plant was the Karbolit Chemical Plant (Khimicaeskiy Zavod 'Karbolit'), commonly referred to as <u>Karbolit</u> . It was situated in an area about one kilometer square which fronted on ulitsa Dzerzhinskogo. The other three sides of the plant bordered on open and wooded areas as opposed to other streets or populated areas. Although there were no rumors or visible evidence of such, there was more than sufficient space for a great amount of plant expansion.
3•	The plant territory was surrounded by a plain wooden fence about three meters high. The fence had no barbed wire, but wooden watch towers about four50X1-HUM meters high were intermittently spacedat unknown intervals along the fence. These towers were manned by male members of the plant security section the existence of these towers was intended for the prevention of thickery by the workers as opposed to providing strict security supervision
	Production 50X1-HUM
43.	this was a non-defense plant and except for some small bakelite, plastic and textolite parts for aircraft, the plant produced plastic and bakelite parts for civilian use. This included various electrical fixtures and allied equipment such as switches, faceplates, plugs, sockets, etc., large plastic wheels used for an unknown purpose within the subway system, combs, various sized plastic wheels and toys.
	where they were sent to their final destinations. Solutions all items were packed in
	cardboard and wooden boxes. CONFIDENTIAL 50X1-HUM

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all shipments	to and from the plant wer	re by truck.	
Shops No. 5, 1 and	1 4		 50X1-HUM
			30/(1-1101)
	Thop No. 5,	the plastic pitch	nshop
lar@ kilns			JAMA RESEL
commodity shop		Shop No	. 1. the civilian
ih.	op No. 4, the finishing and	assembly shop,	where additional
workers were neede	2 a.		50
			50
Show No.	. 5		
			Ч
was located in a s	separate building (point 1/	3), three storic	s high. On the
second floor of th	separate building (point line shop the chemicals were	mixed and poure	i into the tops
second floor of the films. The	ne shop the chemicals were e mixture was later drawn :	mixed and poure from taps at the	into the tops bases of the
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	1 and 4 as or belt which moved along the ce h were five or six cirls.		nsisted on
worker. When the collecting contain further work until	ion on a particular item and past item came to the end of a table ner, and if not completed, taken I finished. The completed items king, storage and/or shipment.	, it was placed in a to the next table for	metal or
about an 80:20 re shifts and employ	two shifts and employed about 1 tio of direct and indirect labored about 130 workers per shift wirect labor. Noither of these s	. Shop No. 4 worked ith about a 100:30 re	three atio
	the plant trademark molded into the imple rectangle with the word Kawere included.		
Plant Chemical Te	chnical School	Ę	50X1-HUM
behind the employ	ird floor of the large brick bui rees' plant entrance (point 8). the school was also subordinate es as opposed to the Ministry of titutes.	to the Ministry of	liately
chemical mechanic in duration and t	wo faculties; the chemical technical faculty. Both courses of inside school year was from Septembered the title of technician (laborian.	truction were four year to June. Graduates	3 ∪ 2
in the technical number of male as required a student a general type of ments were necessibut the majority Dormitory facility the students live The students, and for the students of the students of the students.	the entire student body tot students enrolled in the mechan course. An approximate 70-30 raid female students respectively. It to have had completed a seven strance exam and a physical examinary. Students could enroll from were from the immediate vicinity sies were available in the villaged at home. Endent's monthly stipend for the she fourth, 400 rubles. The school of the from 1800 to 1600 hours.	deal course and 40 per tio existed between the Enrollment procedure year school, and to the nation. No other recommendation of the USS of Orekhovo Zuyevo, as of Karbolit but most first three years was sol hours for the full	ercent the es take quire= 3 50X1-HU est of 6 200 1 50X1-HU
offered to the we	confidential	f the same nature - t	were
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	Upon graduation, the Plant and/or other c choose a work locati	students were assigned by t hemical plants throughout th on but no guarantee was give	e USER. Students could n as to recognition of their tudents graduated annually.
	Security		
14.	twoe plant mards.	he security at the plant was	provided by regular civilian the entrances were not armed.
15.	All employees were in their possession took them home with	ssued the standard type plan at all times. They never ha them.	at pass which they retained d to surrender them and there were no
	secret or restricted within the plant com	shops and all workers had in plex, but no one reamed around	ree access to the shops 50X1-HUN and.
	Civil Defense Instru	etion etion	50X1-HUM
16.	The lectures include development, the ato and after effects, i material. These lec- should be taken before	es (iven in five successive d information on the theory m bomb and its development, neluding the radii of destru- tures also encompassed the g	of atomic energy, its destructive powers, immediate action areas and radioactive arecautionary measures that all attack. Nothing regarding
17.	Voyenkumat officers. by the Min preparation of this broshure form and di and localities. A q lecturer was not a s	The lectures were based or istry of Defense or some oth material was unknown. The m sseminated, again presumably uestion and answer period us pecialist in the field, he of	ree personnel - usually the active duty, reservists, or amaterial prepared are military ministry; exact paterial was prepared in 50X1-HU, from Moscow to all cities
18.	tioned. This include an ensuing attack an preferably in a base until such time as the area or evacuate they would be given but no mention was machieved. They were special clothing, countries items were not	ment. They were also advise decontaminating and rescue u the personnel, if necessary ample warning of an ensuing ade of how this warning and also advised of the dangers vers, etc., were effective a demonstrated or issued to t	te would be pre-warned of e cover, remain in a building, and to remain where they were units would come by to clear to They were advised that attack by radio and sirens advance notice were to be of radiation and that against radiation. However,
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etc.	ention was made against radia being done.		ne food. vet		leal supplic			
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	ures for the for predesignate		f <u>or the</u> latt					
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e. First aid station. This was a small area about 15 x 15 x 4 meters in dimension with several small treatment rooms staffed by at least one nurse during all three shifts and a medical doctor and dentist during the daylight shift.

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this was the shop wherein all the plastic,
bakelite, and textolite aircraft parts were finished and
assembled. The area of this shop, she estimated, was 100 x 50
meters in dimension.

- e. Shop No. 3. This was the press shop, an area about 100 x 50 meters in dimension. The exact nature of this shop's work or equipment was unknown.
- Point 7. Shop No. 6. This was a single brick building approximately 70 x 20 x 6 meters in dimension with a slightly pitched skylight roof. This was the shop wherein the blocks of plastic were re-ground to a powder and mixed with another chemical substance.
- Point 8. Employee entrance. This was a small brick building approximately 10 x 5 x 4 meters in dimension with a flat roof. It contained a number of pass control booths and the guard office.
- Point 9. Plant Chemical Technical School. This was a large three story brick building approximately 100 x 70 x 12 meters in dimension. The school and the classrooms were actually located on the third floor. The major portions of the first floor contained a shop, number unknown, wherein the plastic mixture in dry form was prepared prior to being sent to Shop No. 5. The second floor contained the administrative offices for the shop and a number of other unknown offices.
- Point 10. Fire station. This was a two-story brick building approximately 25 x 10 x 8 meters in dimension. This was the plant fire station as well as the fire station for the workers' village.
- Point 11. The unknown part of the plant territory.
- Point 12. Boiler house.
- Point 13. Main plant laboratory (NIL Nauchno-Isledovatelnye Laboratorii Scientific Laboratories). This was a two-story brick building approximately 30 x 30 x 8 meters in dimension with a slightly pitched skylight roof. Both floors were believed to contain laboratories and their related offices.
- Point 14. Shop No. 1. This was a small single-story brick building approximately 20 x 20 x 5 meters in dimension with a slightly pitched skylight roof. This building contained the civilian commodity shop.
- Point 15. Plant dining hall. This was a three-story brick building approximately 40 x 30 x 12 meters in dimension with a slightly pitched skylight roof. The first and second floors contained the dining

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hall and kitchen facilities and the third floor contained the drafting and blueprint shops of the plant.

- Point 16. Plant Machine Shop. This was a single-story brick building approximately 70 x 50 x 8 meters with a slightly pitched skylight roof. This was the maintenance and repair shop for the plant.
- Point 17. Shop No. 7. This was a single-story brick building approximately 50 x 40 x 5 meters in dimension with a slightly pitched skylight roof. This was the shop where the textolite used at the plant was prepared.
- Point 18. Shop No. 5. This was a three-story brick building approximately 40 x 30 x 12 meters in dimension with a slightly pitched skylight roof. This was the shop and building wherein the plastic and bekelite mixtures were prepared in kilns. The first floor contained the bottom of the kilns and the taps from which the liquid mixture was drawn off into the various molds. The second floor contained the top of the kilns and the mixing rooms wherein the kilns were re-filled. The third floor contained the shop offices and laboratory.
- Point 19. Water station.

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- Point 20. Telephone center. This was a small wooden building approximately 20 meters square which contained the plant telephone center, both internal and external.
- Point 21. Plant Administration Building. This was a two-story brick building approximately 50 x 30 x 8 meters in dimension containing all the various plant administrative offices.
- Point 22. Village of Karbolit. This village, formerly known as Dubrovka and now more commonly referred to as Karbolit, was about a kilometer long and a half a kilometer wide. It had no particular symmetry and consisted of an unknown number of two -three story brick apartment buildings, single-story wooden barrack type buildings, a few single family type wooden homes, all of which were occupied by the plant workers. There were no street names and most of the streets were unpaved, dirt roads. There were no sidewalks, however the village had street lights spaced intermittently throughout and also had a subterranean sewer system. During WW II, this village was used as a German PW camp. the population of this village was about 4000 inhabitants. The village and the 50X1-HUM plant were serviced by a bus which traveled to and from Orekhovo Zuyevo every half hour. The bus, which was unnumbered but had a sign on the front 'Karbolit', traveled on ulitsa Dzerzhinskaya.

The turn around point in Karbolit was at the plant. The run was about a half hour in either direction and the one way fare was

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